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(54) Title: ELECTRODE OF ALKALINE FUEL CELL AND METHOD FOR PRODUCING THEREOF

(57) Abstract: The invention relates to the field of electrical engineering and can be used in the production of electrodes for alkaline fuel cells. An object of the invention is to increase the electrode service life. According to the invention, an electrode of an alkaline fuel cell comprises an insulating frame having ports for feeding and discharging reagents, a mesh current collector embedded in the frame and having lead-outs extending beyond the frame, an active and a barrier layers sequentially applied onto the mesh current collector, wherein sites of the embedment of the current collector and the lead-outs in the insulating frame and a periphery of the current collector along an inner edge of the insulating frame are provided with a sealing layer which can be made of an electrolyte non-wettable substance, e.g. with a sealing layer made of fluoroplastic. The invention also provides a method for producing an electrode of an alkaline fuel cell, which method includes producing a mesh current collector having lead-outs, sequentially applying an active and a barrier layers onto the mesh current collector, embedding the current collector having the lead-outs into the insulating frame, wherein, before the application of the active and barrier layers onto the current collector, edges of the current collector and the lead-outs in sites of the embedment into the insulating frame are impregnated with a lacquer solution and, after the collector has been embedded into the insulating frame, a periphery of the collector along an inner edge of the insulating frame is impregnated with the lacquer solution. A solvent wetting the mesh current collector is used as a solvent for the lacquer, and a substance which forms a continuous, electrolyte non-wettable film after the solvent evaporation is used as the lacquer.

WO 2005/096419 A1